

Appln. No.: 10/085,910
Response dated February 27, 2009
Reply to Office Action of January 12, 2009

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Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (Currently Amended): A method comprising:

receiving at a mobile terminal a first digital video broadcasting signal broadcast by a first wireless transmitter at a first frequency ~~via a uni-directional protocol~~;

when said first digital video broadcasting signal meets a first predefined criterion, the mobile terminal deriving digital video broadcasting signal data from a second digital video broadcasting signal broadcast by a second wireless transmitter ~~via a uni-directional protocol~~; and

determining at the mobile terminal that said digital video broadcasting signal data from said second wireless transmitter meets a second predefined criterion, the mobile terminal switching reception from said first wireless transmitter to said second wireless transmitter after a first digital video broadcasting signal transmission burst has been received and before a second digital video broadcasting signal transmission burst has been received, wherein the first digital video broadcasting signal transmission burst and the second digital video broadcasting signal transmission burst are included in a series of periodic bursts.

Claim 2 (Canceled).

Claim 3 (Previously Presented): A method as in claim 1 further comprising stripping encapsulation from said first digital video broadcasting signal after receipt by the mobile terminal.

Claim 4 (Original): A method as in claim 3 wherein said encapsulation conforms to standard EN 301192.

Claim 5 (Previously Presented): A method as in claim 3 further comprising sending said first digital video broadcasting signal to an application processor for conversion to a data packet.

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Claim 6 (Previously Presented): A method as in claim 1 wherein said first criterion is met if a receiver signal strength value for said first digital video broadcasting signal measured by the mobile terminal is less than a predetermined value.

Claim 7 (Previously Presented): A method as in claim 1 wherein said first criterion is met if a bit error rate for said first digital video broadcasting signal measured by the mobile terminal is greater than a predetermined value.

Claim 8 (Previously Presented): A method as in claim 1 wherein said second criterion is met if a bit error rate for said second digital video broadcasting signal measured by the mobile terminal is smaller than a predetermined value.

Claim 9 (Previously Presented): An apparatus comprising:
a digital broadcast receiver suitable for receiving digital video broadcasting information from a plurality of wireless transmitters, wherein said digital broadcast receiver is configured to receive from a first transmitter at least a first portion of the digital video broadcasting information as a first transmission burst, said first transmission burst broadcast by the first wireless transmitter and a second wireless transmitter;
a receiver elastic buffer for storing said first transmission burst; and
an election module for switching reception of the mobile terminal from the first wireless transmitter to the second wireless transmitter after reception of said first transmission burst has been completed and before a consecutive second transmission burst is received from said second wireless transmitter.

Claim 10 (Previously Presented): The apparatus as in claim 9 further comprising a module for deriving a bit error rate for said first transmission burst.

Claim 11 (Previously Presented): The apparatus as in claim 9 further comprising a module for deriving a received signal strength indicator value for said first transmission burst.

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Claim 12 (Previously Presented): The apparatus as in claim 9 wherein said election module for switching is operative in response to said second wireless transmitter providing to said mobile terminal a signal meeting a predefined criterion.

Claim 13 (Previously Presented): The apparatus as in claim 9 further comprising an application processor for converting said first transmission burst into an information data stream.

Claim 14 (Previously Presented): The apparatus as in claim 9 further comprising a stream filter for stripping transmission encapsulation from said first transmission burst stored in said receiver elastic buffer.

Claim 15 (Previously Presented): The apparatus as in claim 14 wherein said stream filter comprises an Internet protocol (IP) filter.

Claim 16 (Previously Presented): A system comprising:
a first transmitter for broadcasting at least an interval of digital video broadcasting information as a transmission burst; and

a receiver system for receiving said transmission burst, said receiver including a receiver elastic buffer for buffering said transmission burst, said receiver further including a module for executing a hand-over from said first transmitter to at least one other transmitter upon receipt of said transmission burst if at least one predefined criterion has been met, wherein said hand-over takes place prior to receiving a consecutive transmission burst transmitted by said at least one other transmitter.

Claim 17 (Previously Presented): The system as in claim 16 wherein said first transmitter comprises a multi-protocol encapsulator for encapsulating said transmission burst.

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Claim 18 (Previously Presented): The system as in claim 16 wherein said at least one predefined criterion is met if a receiver signal strength value for said transmission burst as measured by said receiver system is less than a predetermined value.

Claim 19 (Previously Presented): The system as in claim 16 wherein said at least one predefined criterion is met if a bit error rate for said transmission burst as measured by the receiver system is greater than a predetermined value.

Claim 20 (Previously Presented): The system as in claim 16 wherein said at least one predefined criterion is met if a bit error rate for a signal received from said at least one other transmitter as measured by the receiver system is smaller than a predetermined value.

Claim 21 (Previously Presented): A method comprising:

a mobile terminal receiving a series of signals provided by each of a plurality of wireless transmitters, said mobile terminal selecting a first wireless transmitter from the plurality of wireless transmitters for providing digital video broadcasting information, each of said wireless transmitters broadcasting on a different frequency;

receiving by the mobile terminal, signals broadcast by the first wireless transmitter;

the mobile terminal deriving a first bit error rate for digital video broadcasting information received form said first wireless transmitter;

when said first bit error rate for said first wireless transmitter is greater than a predefined quasi-error-free value, the mobile terminal deriving a second bit error rate for a second wireless transmitter; and

when said second bit-error rate is less than said quasi-error-free value, the mobile terminal selecting said second wireless transmitter for providing the digital video broadcasting information, and switching reception to said second wireless transmitter.

Claim 22 (Previously Presented): The method of claim 21 wherein selecting said second synchronized wireless transmitter for providing information is performed after completing

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receipt of a signal transmission burst from said first synchronized wireless transmitter and prior to a consecutive signal transmission burst from said second synchronized wireless transmitter.

Claim 23 (Previously Presented): The method as in claim 21 wherein said second synchronized wireless transmitter is selected from the plurality of synchronized wireless transmitters as a function of received signal strength indicator value.

Claims 24-30 (Canceled)

Claim 31 (Previously Presented): A system comprising:

a first digital video broadcasting transmitter configured to broadcast digital video broadcasting information as a first plurality of consecutive transmission bursts;

a second digital video broadcasting transmitter configured to broadcast the digital video broadcasting information as a second plurality of consecutive transmission bursts in synchronization with the first plurality of consecutive transmission bursts; and

a receiver system configured to receive said digital video broadcasting information, said receiver system including a buffer configured to buffer said transmission bursts, said receiver further including a processor, and a memory storing executable instructions that, when executed by the processor, cause the processor to perform a hand-over from said first digital video broadcasting transmitter to said second digital video broadcasting transmitter upon receipt of a first transmission burst, prior to a consecutive transmission burst, if at least one predefined criterion has been met.

Claim 32 (Previously Presented): The system of claim 31, wherein said first digital video broadcasting transmitter comprises a multi-protocol encapsulator configured to encapsulate each transmission burst.

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Claim 33 (Previously Presented): The system of claim 31, wherein said at least one predefined criterion is met if a receiver signal strength value for said first transmission burst as measured by said receiver system is less than a predetermined value.

Claim 34 (Previously Presented): The system of claim 31, wherein said at least one predefined criterion is met if a bit error rate for said first transmission burst as measured by the receiver system is greater than a predetermined value.

Claim 35 (Previously Presented): The system of claim 31, wherein said at least one predefined criterion is met if a bit error rate for a signal received from said second digital video broadcasting transmitter as measured by the receiver system is smaller than a predetermined value.

Claim 36 (Previously Presented): A method comprising:

a mobile terminal receiving digital video broadcasting signals broadcast by a first wireless transmitter and a second wireless transmitter, each of said first and second wireless transmitters broadcasting on a different frequency;

the mobile terminal selecting the first wireless transmitter for receiving digital video broadcasting information broadcast in consecutive transmission bursts;

deriving by the mobile terminal a first bit error rate for digital video broadcasting information received from said first wireless transmitter;

if said first bit error rate for said first wireless transmitter is greater than a predefined quasi-error-free value, the mobile terminal deriving a second bit-error-rate for the second wireless transmitter; and

if said second bit error rate is less than said quasi-error-free value, the mobile terminal selecting said second wireless transmitter for receiving the digital video broadcasting information, and switching reception to said second wireless transmitter.

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Claim 37 (Previously Presented): The method of claim 36, wherein selecting said second wireless transmitter for receiving the information is performed after receipt of a signal transmission burst from said first wireless transmitter, and prior to receipt of a consecutive signal transmission burst from said second wireless transmitter.

Claim 38 (Previously Presented): The method as in claim 36, wherein said second wireless transmitter is selected from a plurality of available transmitters as a function of a received signal strength indicator value.

Claim 39 (Previously Presented): The system of claim 16, wherein the receiver system comprises a mobile terminal.

Claim 40 (Previously Presented): The system of claim 16, wherein executing a hand-over from said first transmitter to said at least one other transmitter upon receipt of said transmission burst comprises completing the hand-over prior to a consecutive transmission burst transmitted by the synchronized first and other transmitters.

Claim 41 (Previously Presented): The method of claim 1, wherein each of the plurality of wireless transmitters broadcast in synchronization.

Claim 42 (Previously Presented): The method of claim 41, wherein switching reception from said first wireless transmitter to said second wireless transmitter after the first digital video broadcasting service signal transmission burst has been received occurs prior to receipt of a consecutive digital video broadcasting service signal transmission burst transmitted by the second wireless transmitter.

Claim 43 (Canceled).

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Claim 44 (Previously Presented): The apparatus of claim 9, wherein the election module for switching reception from the first wireless transmitter to the second wireless transmitter synchronized with the first wireless transmitter switches reception after reception of said first transmission burst has been completed and prior to a consecutive transmission burst transmitted by the second wireless transmitter.

Claim 45 (Canceled).

Claim 46 (Previously Presented): The method of claim 1, wherein the series of periodic bursts are included in a time-sliced digital video broadcasting signal, and wherein the first digital video broadcasting signal comprises a first time-slice of the time-sliced digital video broadcasting signal.

Claim 47 (Previously Presented): The apparatus of claim 9, wherein the digital video broadcasting information is transmitted at a first data transmission rate, and wherein the first transmission burst has a second data transmission rate greater than the first data transmission rate.